

Abstract of the Disclosure

RETROREFLECTIVE PHOTOELECTRIC SENSOR

A retroreflective photoelectric sensor may be of a biaxial type or of a coaxial
5 type. A sensor of the biaxial type includes a light-emitting optical system having a light-
emitting element, a first polarizer and a light-emitting lens arranged sequentially in this
order, a light-receiving optical system having a light-receiving lens, a second polarizer
and a light-receiving element arranged sequentially in this order, and a phase shifter
inserted between the first polarizer and the light-emitting lens of the light-emitting optical
10 system. The polarizer axes of the first and second polarizers are mutually perpendicular.
A phase shifter such as a 1/2 wave plate may further be placed between the first polarizer
and the light-emitting lens of the light-emitting optical system.